



UTE

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UTAH TECHNOLOGY & ENGINEERING



Letter from the President

By Brent Blackburn

As president of this organization, I would like to thank each of you for all you have done to better the lives of the young people we teach every day.

A few years ago, Jim Collins wrote a book entitled *From Good to Great*. Although it was written to the business world, it can relate to everything else including education. The main idea of the book is the concept that good is the enemy of great. We don't have great schools because we have good schools and so forth. In order to make the transition from good to great, one must board the bus and do the little things to change the system.

I really feel that joining UTEE is one of the little things that will help us make the transition from good to great. I know most of you work hard to be successful, you get to your classroom early, you stay late, you really love the students that you work with, and most of all you have patience with the knuckleheads that are looking for something they can excel in. I want to encourage you to take advantage of the upcoming conference to not only improve your knowledge and skills, but to get to know some of the other teachers that are in the exact situation as you are in, and see what

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they might be able to share with you. You are some of the best educators in America and I hope we will all make a concerted effort to make our good programs truly great.

Remember that it is the simple and small things that make a difference, and the day we have to be together at this mid-winter conference will be rewarding if we have the desire to jump to the next level and make our transition from good to great.

UTE Leadership



Jess Carter
President-Elect



Brent Blackburn
President



Kevin Aston
Past President



Doug Livingston
Executive Secretary

TSA State Conference 2014

By Mike Smoot

Jordan Applied Technology Center
9301 South Wights Fort Road
West Jordan, Utah 84088



This year the State TSA Conference will be held at Jordan Applied Technology Center on March 11-12, 2014. Middle School events will be on March 11th and High School events on March 12th. The events will be held at the JATC Building II along with SLCC's Student Pavilion and Health Science Auditorium.

Registration begins February 1st.

We hope your students are preparing for an exciting conference. Please check the State and National TSA web sites for the latest information on the events www.utahtsa.org.

2014 Winter Conference

By Jess Carter

As we look forward to Winter Conference, we wish to recognize those individuals who have volunteered to put on some great classes for us.

Below is a list of the teachers and what they will be teaching. Each teacher will be presenting their content twice in hopes to avoid any conflicts with your scheduling needs.

Darrell Andelin	Classroom Engineering Ideas and Projects
Mike Smoot	TSA - How to have a successful chapter
Corby Briggs	Sheet Metal Project
Gary Stewardson	VEX Robotics
Denise Stewardson	Agriculture in the classroom
Joe Porter and Ryan Anderson	3D Printing - Projects and classroom usability/logistics
Steve Shumway	Tech Ed Ideas and Projects
Scott Bartholomew	Multimedia Projects
Tyler Ames	A new spin on Oregon Trail

Legends from the Past

By Kip Christensen

I was fortunate to know Dale Nish not only from the perspective of a woodturning friend, but also as a student at Brigham Young University from 1977 to 1982, and later as a faculty colleague beginning in 1988 until Dale retired in 1995.

Dale went out of his way to provide meaningful opportunities for growth to students who showed strong initiative. Dale had a quick wit and dry sense of humor. On one occasion a young lady in his class who hoped to get some help interpreting his humor came to him and said, "Dr. Nish, you joke around a lot and at other times you are very serious. Sometimes it is difficult for me to tell whether you are joking or whether you are serious." With a straight face, Dale looked at her and replied, "It only matters when I'm serious."

As a teacher, he had high expectations of his students and little patience for those who were not committed and did not come to class prepared. For students who were primarily motivated by grades, his advice was, "Don't worry about grades, everybody's going to get one."

In faculty meetings at BYU, Dale did a lot more listening than talking, but when he did speak, people took note of what he had to say. His keen analytical mind allowed him to see the big picture. He had an uncanny ability to quickly analyze a situation, see the essence of the facts at hand, make a meaningful assessment, and state his perspective succinctly - usually with a bit of humor.

On one occasion a fellow faculty member made a disparaging remark about not getting paid

what he was worth. Dale's quick response was, "Hell, I couldn't afford to work for that".

Dale was generous with his time and his resources. In 1991, while I was a young faculty member at BYU, my wife, Kim, and I began building a new home. We were on a tight budget and I was trying to put in all the sweat equity I could. One Saturday we had arranged a crew to do some major framing and to my surprise Dale showed up on the job site early that morning with his carpenter's apron. I said, "Dale, certainly you have better things to do on a Saturday morning than frame a house." His response was, "You can't afford to pay me, and I won't let you fire me, so let's go to work."

Early on as a student I sought out Dale as a mentor. That relationship later evolved into a close friendship and over the years I continued to seek his advice in matters both personal and professional. I expect that most of us can count on one or two hands the number of people outside family members who have had significant positive impact on our lives. For me, Dale Nish is primary on that list. I count it one of the great privileges of my life to have been so closely associated with Dale for over 35 years.

Logo Contest

By Doug Livingston

We're still looking for that winning entry for our Logo Contest. The one shown is just for fun. If you have a design you would like to enter, simply attach it to an email and send it to utee.association@gmail.com

UTEE Officer Nominations

By Brent Blackburn & Jess Carter

The following individuals have been nominated to serve as President-Elect of the UTEE:



Kristen Massic is a graduate of Brigham Young University and began her teaching career at Riverton High School. She currently teaches at Springville High School and the Advanced Learning Center in Nebo School District.

Kristen teaches pre-engineering, materials and processes, engineering design, robotics and automation, technical design, and architectural design. In the past she has taught Principles of Engineering (PLTW), multimedia, computer technology, and careers.

Kristen is a member of ITEEA, ACTE, ASM International, and SAMPE. When not at school, she enjoys spending time with her husband, Jared (welding teacher at Maple Mountain High), and their 5-month-old baby boy.



John Bass has lived in Utah Valley his entire life, except for two years spent on and LDS mission in Dallas Texas. He graduated from UVU with an Associate's degree and from BYU with a Bachelor's degree.

John has taught at Timberline Middle School for the past nine years. He teaches eighth grade technology and ninth grade manufacturing. John has a strong belief in the technology education program and the many benefits that it offers students of Utah and is very proud to be a part of it.

Outside of the classroom, John enjoys camping, fishing, hunting and woodworking.



Rebecca Smith is in her 25th year of teaching junior high students in Bountiful, Utah. She has a BS from Brigham Young University and an MA from National University. In 2009 Rebecca became Nationally Board Certified in Career and Technical Education. She also has Mathematics 2 and 3 endorsements, a Technology Education (6-8) endorsement, and a minor in computer science.

I was recently highlighted on the CTE state blog: (<http://www.utahcte.org/blog/meet-becky-smith/>)

I was once asked to write a paper describing the perfect classroom. My belief then and now is that there is no perfect classroom. Just as I expect my students to continue to learn and grow, I also expect myself to continue to learn and grow and make changes to my teaching as I learn better ways of doing things.

A History of Industrial Education in Utah and the UTEE Organization

By Darrell Andelin

The Utah Technology & Engineering Educators (UTEE) association has a long and proud history. In a few weeks Technology & Engineering teachers will gather at the UACTE Conference, January 31 - February 1, at Westlake High in Saratoga. This meeting will mark the 80th conference of the UTEE association which held its first state-wide gathering in 1934.

Our Beginnings

"The first department of Industrial Arts training [in Utah] was set up in Salt Lake City in the fall term of 1902, under the direction of Samuel Doxey, the first supervisor. He was assisted by one director and two instructors. Two rooms with all the necessary benches and tools were fitted up for the boys, one in the Bryant School and one in the Union School. All the boys in the eighth grade and some of the boys in the seventh grade were accommodated in these rooms."¹ (It should be noted that many Utah schools in 1902 only went to the eighth grade.)

UTEE began in 1922,² and was originally known as the Mechanical Arts Section of the Utah Education Association (UEA).³ (The UEA, a state affiliate of the National Education Association (NEA), was officially chartered in 1910 and represented all Utah teachers.)⁴

Industrial Arts and Vocational Education

The Industrial Arts movement began in 1904 as general education which would benefit the exploratory, non-vocational needs of all students. Manual Training, or Mechanical Arts as it was known in Utah, was defined as occupational training for a specific trade skill.⁵ The focus of Mechanical Arts was vocational. These two philosophies evolved into the Industrial Education movement, led by Professor



West High Auto Shop-1922
West High's Mechanical Arts program was considered one of the best in Utah with 8 instructors in the department.

Charles R. Richards, Columbia University. Industrial Education promoted a comprehensive concept of general education, and also meeting the vocational demands of industry. Professor Richards founded the National Society for the Promotion of Industrial Education in 1906. This organization was heavily supported by business and industry, as well as vocational educators.⁶ *"To this day the philosophical problems in Industrial Education stem from internal disagreement as to whether the field is general or vocational."*⁷ In Utah, the term Industrial Education has been inclusive of both Industrial Arts and Vocational Education.

Affiliation with AVA (ACTE)

The American Industrial Arts Association (AIAA) was created in 1939 by William E. Warner to support the study of Industrial Arts in schools.¹⁰ There is ample evidence to conclude that our original association, the Manual Arts Section of UEN, changed their name to the Utah Industrial Arts Association (UIAA) in the mid 1940's. They also became a state affiliate of AIAA.^{Note 1} The new UIAA organization continued to include both Industrial Arts and Vocational Education teachers.

A History of Industrial Education in Utah and the UTEE Organization - Continued

In 1956 UIEA was well organized with 11 regional associations state-wide. Each region had their own leadership, held regular local meetings, provided professional development training, sent a representative to UIEA leadership meetings, presented regional teacher awards, nominated candidates for the Utah Teacher of the Year Award, and nominated candidates for President-Elect of UIEA.

In 1969 UIAA changed their name to the Utah Industrial Education Association (UIEA) to better reflect the inclusion of both Industrial Arts and Vocational Education teachers. (AIAA became ITEA in 1985, and ITEEA in 2010. This was done to address the technological nature of industry, the need for technology literacy, and the STEM educational movement.)

Multiple Affiliations

Over the years UIEA has been affiliated with at least three organizations: UEA, UVA, and AIAA. These affiliations followed educational trends and the establishment of various national organizations. In the 1970's UIAA would host 2 teacher training conferences per year. At the fall UEN Convention, UIEA would conduct an opening meeting with a keynote speaker, followed by special interest sessions. Many of these conferences took place in the original Salt Palace which was completed in 1969. Participation with UEN continued until 1995, with Dave Milliken being the last keynote speaker. This formally ended a 73 year affiliation with UEA. The second conference was the annual spring UIEA Conference mentioned above. This conference helped support UIEA's affiliation with UVA.

UIEA has also supported the summer conferences sponsored by the State Office of Education (USOE). For many years the USOE Summer Conference was held in Logan. UVA sponsored a large formal awards banquet, and UIEA sponsored a large vendor fair and steak fry luncheon. This luncheon served as a UIEA business meeting, with teacher recognitions and

vendor drawings. The steak fry and vendor fair was always a highlight of the USOE Summer Conference. But the best part was the association with other teachers.

UIEA has been a national affiliate of AIAA (ITEEA) for almost 70 years. UIEA members have supported national curriculum development, served on national committees, and helped host the ITEEA Conference in Salt Lake City three times, 1991, 2000, and 2008. Many Utah teachers have made presentations at the ITEEA National Conference, and received awards for program excellence or teacher excellence. The ITEEA organization has provided national technology standards, classroom curriculum, and strong teacher support.

UACTE Comes of Age

In the late 1990's the UVA organization was minimally active. UVA leaders held regular business meeting, and conducted a yearly gathering to elect new officers, present awards, and hold section meetings. This semblance of a UVA conference was held during school-time, and sparsely attended. During this era a few dedicated state leaders understood the importance of this state-wide association and carried it through difficult times. Noted should be Rod Crocket, Garth Hill, Dean Christensen, Scott Olsen, and Jay Hicken. Others showed support, but these key leaders rallied their teachers to generated membership and financial backing.

In 1998 a proposal was made to improve the Association and better deliver support to teachers. In 1999 the first major UACTE Conference was held in St. George, over the Martin Luther King weekend. The conference was a huge success with each section delivering a full schedule of special interest sessions. Over 500 people attended. A special tribute should go to Larry Stevenson, Washington CTE Director, who made the conference possible. Since that pivotal event the Annual UACTE Conference has continued to blossom as one of the finest ACTE conferences in the nation.

A History of Industrial Education in Utah and the UTEE Organization - Continued

During this era UIEA developed a strong alignment with UACTE. In 2001 UIEA changed their name to the Utah Technology & Trade Educators (UTTE) to better identify each instructional area. In 2012 the UTTE members voted to divide the associations into two groups, one for Technology & Engineering, and one for Skilled and Technical Sciences. Technology & Engineering teachers are now represented by the Utah Technology & Engineering Educators (UTEE). It is interesting to note that Joe Luke strongly advocated a division of the association in 1973, 39 years earlier.

Supporting our UTEE Association

Over the past 112 years the educational needs of students have radically changed. Many students in 1902 were lucky to achieve an 8th grade education. When our professional association was born in 1922, no one could have envision the technological world we live in. There are obvious ties to our industrial heritage, but in other ways our future is rooted in technology, engineering applications, and STEM integration. This does not negate the need for a well-equipped general shop. There is no use for technology unless it is applied, and engineering has no purpose unless a product produced. Our exploratory curriculum must respect the value of all vocations.

Today UTEE is affiliated with both ACTE and ITEEA. Both national organizations serve a vital function to our profession. UTEE is also a partner with USOE, TSA, and our teacher-training universities. It is vitally important that we become members of, and actively support UTEE and our national affiliates. UTEE is not somebody else...it is us. Our unique profession needs to be represented. Through UTEE we support each other, mentor new teachers, recognize teaching excellence, and provide professional networking. Many giants of our profession have maintained our association for 92 years. Let us keep UTEE strong for the next generation of teachers.

References

- ¹ Biennial Report of Industrial Arts Education, USOE, 1958.
- ² Luke, Joe, "Brief History of UIEA", UIEA Newsletter, pg. 8, Oct. 1968.
- ³ "What Happened 45 Years Ago", UIEA Newsletter, pg. 10, Oct. 1968.
- ⁴ Utah Education Association website, <http://www.myuea.org/>, "General Information".
- ⁵ Misner, Christian R., "The Industrial Arts Movement", www.oswego.edu/~waite/IndArtsV2ByMisner.doc
- ⁶ McClure, Arthur F., et al, Education for Work: The Historical Evolution of Vocational and Distributive Education in America, pgs. 48-50, Associated University Presses, Inc., 1985.
- ⁷ Foster, Patrick N., "Lessons from History: Industrial Arts/Technology Education as a Case", Journal of Vocational and Technical Education, Vol. 13, Number 2, Spring 1997.
- ⁸ UACTE webpage: uacte.org
- ⁹ <http://www.intelius.com/people/Warlough-Crane/081jdhk86ba>
- ¹⁰ "A Brief ITEEA History", ITEEA website, <http://www.iteea.org/AboutITEEA/ABriefITEEAHistory.pdf>.

Notes

1. There are many reasons to conclude that the UIAA name was established in the mid 1940's as an affiliate of AIAA. 1) The UIAA acronym is a state version of the AIAA name. 2) USOE has a copy of the 1947 Industrial Arts Bulletin. This Bulletin was identified in the 1958 Industrial Arts Report as the official publication of the State Department of Public Instruction and UIAA. This Industrial Arts Bulletin began in 1946 and continued well into the 1990's. 3) A brief history, written by Joe Luke, refers to the association in 1949 as UIAA, with William E. McKell being President. 4) The 1968 UIAA newsletter explains the Teacher Recognition Program, requiring AIAA membership, and recognition at the AIAA Convention. 5) The application for UIAA membership included dues for AIAA. There was no reference to UVA on the application. 6) The Oct. 1968 UIEA Newsletter, page 17, states that "AIAA is our parent organization in Washington D.C."
2. An early UIAA Constitution was published in the May 1969 UIAA Newsletter. The segment on Meetings, Article V, Section 2, state: "The annual fall meeting of the Industrial Arts Section of the Utah Education Association is also an official meeting of the Utah Industrial Arts Association." Apparently UIAA, formally the Mechanical Arts Section, continued their affiliation with UEA for over 70 years. Participation in the UEA Convention is well documented in UIAA Newsletters.

In upcoming issues...

By Doug Livingston

In future issues, we're hoping to include articles from/about:

- Winter conference report
- UTEE Award recipients
- More "Legends of the Past"
- Teacher Spotlights
- Teaching ideas
- Tech Ed program at BYU
- Membership information
- Details on upcoming Student contests and results
- And more

Please send us your comments and ideas for other topics that could be covered. We're here to serve you!